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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Intl. Appl. No. : PCT/JP03/08305  
Applicant : OKADA, Hidechika and Noriko  
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Title : HUMAN IgM ANTIBODY INDUCING APOTOSIS IN HIV-  
INFECTED CELLS AND REMEDY FOR HIV-INFECTION  
Docket No. : 3348/1  
Customer No. : 23638

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Sir:

Attached is an English translation of Replacement Sheets 15 and 16 of the Amended Claims as filed under PCT Article 19.

Amendment of Claims under Article 19(1) (Rule 46)

The attached amended claims were accepted by International Patent Secretariat on October 21, 2003. Claims 1, 2 and 6 of the original application were amended. No amendment were made to the remaining other claims.

## CLAIMS

1. (Amended) A monoclonal antibody belonging to human IgM for recognizing antigens not expressed in tumor cells and normal cells and specifically expressed in HIV-infected cells  
5 to induce apoptosis to the infected cells.

2. (Amended) A remedy for HIV-infection diseases comprising a human IgM antibody as an effective ingredient, the antibody not recognizing tumor cells and normal cells and  
10 specifically recognizing HIV-infected cells to induce apoptosis to the HIV-infected cells.

3. A remedy according to Claim 2 for preventing onset of AIDS.  
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4. The human IgM monoclonal antibody according to any one of Claims 1 to 3, wherein the human IgM monoclonal antibody that reacts with the HIV-infected cells is 2G9 antibody comprising a base sequence of the H-chain variable  
20 region represented by sequence No. 1.

5. The human IgM monoclonal antibody according to any one of Claims 1 to 4, wherein the human IgM monoclonal antibody that reacts with the HIV-infected cells is 2G9  
25 antibody comprising a base sequence of the L-chain variable region represented by sequence No. 2.

REPLACEMENT SHEET

-16-

6. (Amended) A 2G9 antibody-producing cell strain with  
an accession No. FERM BP-8378 belonging to human IgM not  
recognizing tumor cells and normal cells and specifically  
5 recognizing HIV-infected cells to induce apoptosis to the  
infected cells.

7. The monoclonal antibody according to any one of  
Claims 1 to 5 produced by the cell strain with an accession  
10 No. FERM BP-8378.